Special Issue

Latest Advances of 5G for IoT and Automotive Scenarios

Message from the Guest Editors

The purpose of this Special Issue is to collect novel papers on the latest advances in 5G technology supporting next-generation IoT, smart manufacturing, and automotive communications, in order to provide a detailed understanding of the basic principles, state of the art, applications, future trends, and open issues. Hence, contributions from both academia and industry are invited on all the above 5G aspects concerning, but not limited to, topics such as:

- Transceiver and antenna design;
- Beamforming techniques, millimeter wave (mmW) communications combined with massive MIMO (mMIMO);
- Adaptive resource allocation;
- Cognitive, opportunistic, and cooperative radio;
- Latency, reliability, energy and spectrum efficiency, flexibility, connection density;
- Channel sounding, measurement, modeling, estimation;
- Reconfigurable intelligent surfaces;
- Network densification, optimization, planning;
- Cybersecurity issues;
- Machine learning techniques;
- Applications to automotive (V2X, ADAS) and smart manufacturing (D2D);
- High-performance platforms (FPGA, GPU, GPP, SoC) for baseband processing.

Guest Editors

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Prof. Dr. Sergio Saponara

Dr. Alexandros-Apostolos Boulogeorgos

Deadline for manuscript submissions

closed (20 February 2022)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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